

What is Claimed Is:

1. A method in a processor-based system configured for executing a plurality of management programs according to respective command formats, the method comprising:

receiving a generic command from the user;

validating the generic command based on a command parse tree that specifies valid generic commands relative to a prescribed generic command format, the command parse tree having elements each specifying at least one corresponding generic command component and a corresponding at least one command action value, the validating step including identifying one of the elements as a best match relative to the generic command; and

issuing a prescribed command of a selected one of the management programs according to the corresponding command format, based on the identified one element.

2. The method of claim 1, wherein the generic command includes at least one input command word, the validating step including:

comparing each input command word to a command word translation table, configured for storing for each prescribed command word a corresponding token, for identification of a matching token; and

determining a presence of the matching token within the command parse tree for each input command word.

3. The method of claim 2, wherein the determining step includes recursively traversing the command parse tree based on an order of the input command words for identification of the matching token within the identified one element.

4. The method of claim 3, wherein the issuing step includes issuing the prescribed command based on a corresponding command key specified for the matching token within the identified one element.

5. The method of claim 4, wherein the issuing step further includes accessing a prescribed translator configured for converting the generic command according to the corresponding command format into the prescribed command based on the corresponding command key.

6. The method of claim 5, wherein the validating step including validating at least a portion of the generic command by identifying the one element having the best match relative to the portion of the generic command, the issuing step including issuing the prescribed command based on the identified one element corresponding to the portion of the generic command.

7. The method of claim 6, further comprising executing the prescribed command within the corresponding selected one management program.

8. The method of claim 1, wherein the validating step including validating at least a portion of the generic command by identifying the one element having the best match relative to the portion of the generic command, the issuing step including issuing the prescribed command based on the identified one element corresponding to the portion of the generic command.

9. The method of claim 8, further comprising executing the prescribed command within the corresponding selected one management program.

10. A system configured for executing a plurality of management programs according to respective command formats, the system comprising:

a parser having a command parse tree configured for validating a generic command received from a user, the command parse tree configured for specifying valid generic commands relative to a prescribed generic command format and having elements each specifying at least one corresponding generic command component and a corresponding at least one command action value, the parser identifying one of the elements as a best match relative to the generic command; and

a plurality of translators configured for issuing commands for the management programs according to respective command formats, the parser outputting a prescribed command to a selected one of the translators based on the identified one element.

11. The system of claim 10, wherein the parser further comprises a command word translation table configured for storing for each prescribed command word a corresponding token for identification of a matching token, the parser configured for determining a presence of the matching token within the command parse tree for each input command word.

12. The system of claim 11, wherein the parser recursively traverses the command parse tree based on an order of the input command words for identification of the matching token within the identified one element.

13. The system of claim 12, wherein the parser validates at least a portion of the generic command by identifying the one element having the best match relative to the portion of the generic command.

14. A computer readable medium having stored thereon sequences of instructions for executing a plurality of management programs according to respective command formats, the sequences of instructions including instructions for performing the steps of:

receiving a generic command from the user;

validating the generic command based on a command parse tree that specifies valid generic commands relative to a prescribed generic command format, the command parse tree having elements each specifying at least one corresponding generic command component and a corresponding at least one command action value, the validating step including identifying one of the elements as a best match relative to the generic command; and

issuing a prescribed command of a selected one of the management programs according to the corresponding command format, based on the identified one element.

comparing each input command word to a command word translation table, configured for storing for each prescribed command word a corresponding token, for identification of a matching token; and

16. The medium of claim 15, wherein the determining step includes recursively traversing the command parse tree based on an order of the input command words for identification of the matching token within the identified one element.

18. The medium of claim 17, wherein the issuing step further includes accessing a prescribed translator configured for converting the generic command according to the corresponding command format into the prescribed command based on the corresponding command key.

19. The medium of claim 18, wherein the validating step including validating at least a portion of the generic command by identifying the one element having the best match relative to the portion of the generic command, the issuing step including issuing the prescribed command based on the identified one element corresponding to the portion of the generic command.

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21. The medium of claim 14, wherein the validating step including validating at least a portion of the generic command by identifying the one element having the best match relative to the portion of the generic command, the issuing step including issuing the prescribed command based on the identified one element corresponding to the portion of the generic command.

22. The medium of claim 21, further comprising instructions for performing the step of executing the prescribed command within the corresponding selected one management program.

23. A system configured for executing a plurality of management programs according to respective command formats, the system comprising:

means for validating a generic command received from a user, the validating means configured for specifying valid generic commands relative to a prescribed generic command format and having elements each specifying at least one corresponding generic command component and a corresponding at least one command action value, the validating means identifying one of the elements as a best match relative to the generic command; and

a plurality of translators configured for issuing commands for the management programs according to respective command formats, the validating means outputting a prescribed command to a selected one of the translators based on the identified one element.

24. The system of claim 23, wherein the validating means comprises a command word translation table configured for storing for each prescribed command word a corresponding token for identification of a matching token, the validating means configured for determining a presence of the matching token for each input command word.

25. The system of claim 24, wherein the validating means recursively validates each input command word based on an order of the input command words for identification of the matching token within the identified one element.

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